

**NONSYSTEMATIC REPEAT-ACCUMULATE CODES FOR ENCODING
AND DECODING INFORMATION IN A COMMUNICATION SYSTEM**

ABSTRACT OF THE DISCLOSURE

A modulation and coding scheme for a communication system is based on use of nonsystematic repeat-accumulate codes for encoding channel information for transmission, and for employing a combined detection and decoding arrangement to decode the coded channel information. The nonsystematic repeat-accumulate codes may be generated by an encoder at a transmitter and decoded by a composite detector/decoder arrangement at a receiver.